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CONTROL NO. ______TCS-11394/70

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TCS-11394/7	70
4 December	1970
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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION : Chief, PPS/TSG

SUBJECT : RED Monthly Report on Significant Events

(November 1970)

Significant Items of Interest for November 1970:

1. Target Indexing Device — The TID was delivered to NPIC on 25 November 1970. It is currently being reassembled in Room 2N617 by contractor personnel. After reassembly, the device will be undergoing test and evaluation and simulated operational tests. Actual operational tests will begin upon receipt of first mission film.

2. Utility of Stereo Scanning - Final reports were delivered in November and are currently being evaluated. The data in these reports will be used to evaluate the feasibility of continuing the development of the Automated Stereo Scanner. The latter is undergoing an engineering audit by

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- 4. High Precision Stereocomparator (HPSC) Part 1 of the Preacceptance Tests for this instrument were performed at the plant by 25X1A
 NPIC personnel from 17-19 November 1970. This part of the test covered
 the technical specifications and parameters for the HPSC. The instrument
 met all major specifications. Part 2, covering the operational suit-
- 5. Scan & Search P.I. Station Work is progressing slightly ahead of schedule on this project. the optical subcontractor, 25X1A reports that the optical fabrication is going along very well.
- 6. Step and Repeat Printer RED/TSG and PSG met with contractor) on this program. Guidance was provided on format size, scan angle marks, etc., of planned operational imagery.

ability of the instrument, will take place in December.

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TCS-11394/70

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Research in Mensuration Instruments - The contractor demonstrated the progress made on the Automated Pointing Task of this program. RED/TSG and PHD/IEG personnel viewed the bench setup used with imagery and were quite impressed with the results.

1540 Light Table - Engineering and operational tests were performed at the plant on several occasions during the month of November. Several deficiencies were surfaced and corrected by the contractor. The technical monitor ran additional tests on 28 and 30 November and feels that the table is technically acceptable. RED/TSG and IEG will perform operational suitability tests on the table at on 1 December 1970.

> 8" by 10" 25X1A

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9. 8" x 10" Camera Camera was obtained from the manufacturer for NPIC evaluation from 2-6 November 1970.

- A new proprietary heat processor 10. Heat Processor This will be evaluated has been obtained on loan from the throughout the Center for use with Heat-Processed Diazo and daylight dry silver materials.

- 11. Calibration Device Phase 1 of the development of a calibration device for the HPSC has been completed and the experimental prototype shows definite promise. Paper work is in progress for the approval of Phase 2 to fabricate the actual prototype device.
- visited SPPF, Westover 25X1A 12. Sensitometric Processor -Air Force Base, to witness the acceptance tests of the Sensito-25X1A meter Processor purchased by the Air Force. As a result of this visit, the specifications of the NPIC sensitometric processor were defined and to build its processor for an agreement reached with a total cost of

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Unconventional Film Testing visited NPIC to discuss a contract for testing unconventional films. is well equipped in this area, and has tested several unconventional films for laser recording systems. Three reports on in-house work in this area were received. A proposal has been requested.

has written a 14. Color Gamut Program program that saves a significant amount of time in reducing density values required for the Color Gamut Program.

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TCS-11394/70

SUBJECT: RED Monthly Report on Significant Events (November 1970)

15. Color Training Program 25X1A - Agency TS clearances were granted personnel during the reporting period. Plans are underway to begin an extensive Center familiarization program for them in support of the color training contract. A memorandum specifying the nature and extent of the support has been sent to all Group Chiefs. 16. Program Review - A three-day NPIC 25X1A Panel program review was held in Seattle. Results from the FY-69/70 program were evaluated. The FY-71 program was reviewed and modified, as appropriate. 17. Advanced PI Viewer Development 25X1A - Contractor representatives held extensive discussions with 25X1A (NPIC optics consultant), as well as with ATB/RED and IEG personnel, regarding the development of an advanced PI viewer. 18. UV Exposure Criteria Evaluation (- That portion of 25X1A the Human Engineering Design Guide (HEDG) concerning recommended exposure levels to ultraviolet radiation has been submitted to OMS for review and evaluation. Distribution of the revised HEDG is delayed pending receipt of the evaluation. 19. OSI - NPIC Stereo Acuity Research Program -25X1A Life Sciences Division/OSI, and HFS/RED, have 25X1A completed preliminary plans to conduct an experiment to assess the influence of age and experience as a microscopist on stereo acuity. The experiment, for master's thesis also satisfies an NPIC vision testing program requirement. The study will employ Center photointerpreters as well as new non-PI Agency employees. In addition, the laser optometer developed by Dr.

20. Contact Lens Evaluation - ATB and developed a program to evaluate the feasibility of a large scale contact lens prescription program for PI's who will use the Wide-Field Stereo Viewer.

personnel will constitute the visual stimulus, the

(NPIC human factors consultant) will be used to assess the

21. EOI Imagery Evaluation - The final report of a study by OSP, NPIC, and to evaluate simulated EOI imagery was submitted to the Executive Director, NPIC.

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refractive state of the observers' eyes. The stereo acuity test

first time it will have been used on Center PI's.

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TCS-11394/70

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22. Image Manipulation Research Laboratory - The Scanner and display components have been installed in Room 4N807. Detailed testing is in progress and will be completed in January 1971. Experiments will be performed in conjunction with the OCS computer.

- ends in November. The information extraction experiments met their objectives. Results on the manipulation of operational imagery have not been received, but should be promising enough to justify another year of support. The final report will include a detailed historical summary of the entire five-year project.
- 24. Herd Criterion delivered data showing the effects of the Herd Criterion on one-dimensional, edge trace data; the results are promising. personnel are working on two-dimensional image data. The contract will be ommpleted 31 December 1970.

27. Proposals, Contracts, and Reports

- a. A proposal for a laboratory feasibility test to retrieve information from overexposed film was received from Technical Operations. It is being evaluated.
- b. Proposals have been received from the proposals have been received from the PI Print Out Station; a Compact, High-Speed, Roll-Film Processor; and a Dry Color Program. These are all based on the previous work in dry silver technology.

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TCS-11394/70

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c. Proposals and reports evaluated:

- 1. Rear Projection Viewer.
- 2. Unsolicited proposal, Supra Additive Color Enhancing Film Viewer.
- 3. Development of Specifications for an Audio Clueing Information System evaluation completed.
- 4. Beneficial suggestion, Teletype Console Paper Display and Feed evaluation completed.
- 5. ESD/TEB Memo Test Report on Computer Center Sound Level evaluation completed.
- posal to Establish the Intelligence Value of Color Photography evaluation in progress.
- 7. unsolicited letter proposal for Enhancing Human Performance on Complex Perceptual Tasks evaluation in progress.
- 8. Evaluation of Four Image Manipulation Techniques for Photointerpretation evaluation in progress.
- 9. Analysis of the Study of the Utility of Stereo Scanning evaluation in progress.
- U.S. Arms Control and Disarmament Agency, Aerial Surveillance Imagery Interpretation Support Program evaluation in progress.

d. Contracts:

1. Grant Program - The PAR was approved by the DDI. It should be formally issued by 27 November 1970.

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TCS-11394/70

SUBJECT: RED Monthly Report on Significant Events (November 1970)

d. Contracts: (cont.)

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- 2. Photoscience Support The PAR was approved by D/NPIC. It should be issued formally in December.
- The Color Technology Implementation Contract for was signed off.
- 4. A request for a follow-on contract with has been forwarded to Chief, Personnel Branch.
- e. The final VHR Working Group Report was published and distributed. COMIREX reception was favorable.
- - 29. Briefings and Consultations:
 - a. participated in several working sessions with Mr. regarding a special project, and a briefing was given to the Office of the Director, NPIC.
 - b. The NPIC and encouraging progress is being made.
 - c.
 - on Geometrical Optics and, in December, will continue to examine photometry. These lectures have been well received and attended. Members of RED, APSD, ESD, and TSD/DDP are participating.
 - on their free radical film. was quite open in his discussions of the mechanisms by which this unconventional material functions. His inputs added significantly to our knowledge of this material.

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TCS-11394/70

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f. briefed C/RED and C/APSD on the Color Report.

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- g. ATB personnel assisted TEB/ESD in designing an experiment to evaluate a new reticle design.
- h. RED personnel met with representatives from PSG to discuss microfiching the human factors research reports—a prelude to a proposed division—wide document storage and retrieval program.
- NPIC Color R&D Program Briefing ATB personnel briefed R&D management on the Center's color R&D program.

 Project Director for intelligence related research, requested and was granted permission to submit a letter proposal outlining thoughts relative to the establishment of the intelligence value of color.

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- 30. Training:
- a. is attending the in-house reading improvement course.
- b. is attending an Intelligence Briefing Course through 4 December 1970.

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Deputy Chief,
Research & Engineering Division,
TSG/NPIC

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